

REMARKS/ARGUMENTS

Claims 1-30 and 51-72 are pending in the present application. Claims 1, 9, and 17 have been amended, and claims 59-72 have been added. Consequently, claims 1-30 and 51-72 remain pending.

Applicant notifies the Examiner that in co-pending related patent application 09/583,318, filed May 30, 2000, the Examiner for that application rejected the pending claims 1, 4, 7, 9-10, 12, 15-16, 19, 21-22, 24, 28, 31, 33-34, 36, 39, 41-42, 44, 47, 49-50, 52, 55, and 57-58 of that application under 35 U.S.C. 103(a) based on Rosen et al. (U.S. Patent No. 6,014,090) in view of Shoji et al. (U.S. Patent No. 6,564,254) and Black et al. (U.S. Patent No. 6,654,813); rejected claims 5, 17, 29, 37, 45, and 53 under 35 U.S.C. 103(a) based on Rosen, Shoji, Black, and further in view of Martin Jr. (U.S. Patent No. 6,363,419); rejected claims 6, 18, 30, 38, 46, and 54 under 35 U.S.C. 103(a) based on Rosen, Shoji, Black, and further in view of Wynblatt et al. (U.S. Patent No. 6,219,696); and rejected claims 11, 23, 35, 43, 51, and 59 under 35 U.S.C. 103(a) based on Rosen, Shoji, Black, and further in view of Perrone et al. (U.S. Patent No. 6,157,705).

Claims 1, 9, 17 herein have been amended to clarify that the inventions of these claims allow the determination of particular web sites by examining prior patterns of access of web sites in the environment of the wireless device by users of the communication network, as explained in detail below. This feature is disclosed, for example, in Applicant's specification on page 7, lines 6-10, and page 9, lines 8-22. Applicant has also amended these claims to remove step (e), which Applicant believes is patentable, but now recites the feature in new dependent claims 59, 63, and 66, respectively.

Claims 59-72 have been added by this amendment and are dependent on the independent

claims 1, 9, 17, 25, and 51, and are therefore believed patentable for at least the same reasons as explained below and for additional reasons. Claims 59, 63, and 66 recite automatically pushing content, a feature that was previously recited in their independent claims 1, 9, and 17, respectively. Claim 60 recites that the web site identifiers are augmented with identifiers for web sites accessed from an environment similar to the device environment, which is described in the specification on page 9, lines 12-13 and Fig. 4. Claims 61, 64, 67, and 70 recite that the web sites most likely to be requested are most frequently requested by users in the environment of the device, which is described in the specification on page 7, lines 6-9 and page 9, lines 9-10. Claims 62, 65, 68, and 71 recite that information is collected from a service provider and is analyzed for patterns of use for each environment by users of the communications network, and is described in the specification on page 9, lines 1-7. Claims 69 and 72 recite that the patterns of use are prior patterns of access by users at the device environment or location, and is described in the specification on page 7, lines 6-10, and page 9, lines 8-22. Accordingly, no new matter has been submitted. None of these features is disclosed or suggested by the references cited by the Examiner, and these claims are believed patentable over the references cited by the Examiner.

103 Rejections

The Examiner rejected claims 1-2, 4-7, 9-10, 12-15, 17-18, 20-23, 25-27, 29-30 and 51-58 under 35 USC §103(a) as being anticipated by Martin Jr. et al, U.S. Patent No. 6,363,419 in view of Goodman, U.S. Patent 5,999,929. The Examiner rejected claims 3, 11, 19, and 28 under 35 USC §103(a) as being unpatentable over Martin in view of Goodman and further in view of Hancock et al., U.S. Patent No. 6,202,023. The Examiner rejected claims 8, 16, and 24 under 35 USC §103(a) as being unpatentable over Martin in view of Goodman and further in view of Giangarra et al., U.S. Patent No. 6,101,472. Applicant respectfully traverses the rejections.

Claim 1 recites a method for increasing ease-of-use and bandwidth utilization in a wireless device, and includes maintaining a database of web site identifiers categorized by environmental factors, receiving environment information about the wireless device's environment, and querying the database using the environment information to determine particular web sites most likely to be requested by a user of the wireless device in that environment, wherein the particular web sites are determined by examining prior patterns of access of web sites in the environment of the wireless device by users of the communication network.

Martin and Goodman do not disclose or suggest determining particular web sites most likely to be requested by user in an environment, by examining prior patterns of access of web sites in the environment of the user and device. Martin discloses a wireless device that can provide an approximate location and time to a server, and receive information content related to that location and time from a wireless network (col. 11). Martin uses the transition of one cell phone location to another to cause idle content that is appropriate to the new cell location and current time to be provided to the wireless device (col. 11). Martin only uses location as an indication of what information content to send. There is nothing disclosed or suggested in Martin about examining prior patterns of access of web sites by users in the environment of the device to determine web site identifiers. Furthermore, Martin fails to teach or suggest “a database of web site identifiers that are categorized by environmental factors,” as recited in claim 1.

Goodman discloses a link referral system in which links in requested web pages are classified in different classes so that related links from the same class can be provided to users. Goodman provides links that are in the same classes as links in the requested web page, where classes are created and links are classified based on titles of the sections in web pages in which

the links are located (col. 1, lines 61-67, col. 2, lines col. 5, lines 34-67, col. 6, lines 1-13). as recited in claim 1. Goodman does not provide related links based on examining prior patterns of access of web sites by users from the environment that the device is currently in, as recited in claim 1. There is nothing disclosed in Goodman about examining prior patterns of access of web sites in the device environment. Goodman only examines content within web pages that have been accessed and classifications created based on web page content. Applicant's invention can examine prior patterns of access by users from the environment to help provide relevant web site identifiers for that environment which cannot be found by the systems like Martin and Goodman.

Applicant therefore believes claim 1 is patentable over Martin in view of Goodman. Independent claims 9 and 17 have been clarified to recite similar features as claim 1 and are believed patentable over Martin in view of Goodman for at least similar reasons.

Claims 25 and 51

Independent claims 25 and 51 are directed to a method for generating and updating a URL database for providing an environmental sensitive user interface on a wireless device.

Claim 25 recites collecting information indicating which URLs are accessed by the wireless devices in what environments, categorizing the URLs according to environment, analyzing the collected information for each environment for patterns of use, and forming a database from the patterns of use. The combination of Martin and Goodman does not disclose or suggest the features of claim 25.

Martin discloses a wireless device that can provide an approximate location and time to a server, and receive information content, related to that location and time, from a wireless network. There is no mention or suggestion of collecting information indicating which URLs are accessed by wireless devices in what environments and categorizing URLs by environment.

Martin uses location and time as a indication of what information content to send, but is silent as to what information is collected. Furthermore, Martin does not disclose analyzing the information collected for each environment for patterns of use, or forming a location URL database from the patterns of use, as recited in claim 25. Martin does not make any mention of collecting information that indicates access of URLs by users or devices in particular environments, nor analyzing such information for patterns of use and forming a database from those patterns of use.

Goodman, likewise, discloses nothing about collecting information indicating which URLs are accessed by wireless devices in what environments, nor examining patterns of use or forming a database from patterns of use. Goodman classifies links based on classes derived from titles and labels of sections in web pages in which the links are located (col. 1, lines 61-67, col. 2, lines col. 5, lines 34-67, col. 6, lines 1-13); Goodman does not refer to or examine environments in which web sites are accessed, and only looks at the specific content within web pages to determine classes and organize links into those classes. Goodman mentions nothing about categorizing URLs according to environments that requesting devices were in when URLs were accessed by the devices. Furthermore, Goodman does not disclose or suggest analyzing information collected for each environment for patterns of use, or forming a location URL database from the patterns of use. Goodman's database is formed based on classes developed from section titles in web pages, where the classes are created by converting titles and link text from web pages into canonical forms based on established rules (col. 6, lines 8-67, cols. 7-8). Neither Martin nor Goodman teaches or suggests patterns of use as any criteria for analysis or forming a database. Claim 25 is therefore believed patentable over these references.

Claim 51 recites a system that includes a communication network, service provider, and server, where the server generates and updates a location URL database by collecting

information from wireless devices indicating which URLs are accessed from the wireless devices at what locations and categorizing the URLs according to location, analyzing the information collected for each location for patterns of use, and forming a location URL database from the patterns of use. Claim 51 is therefore patentable for at least similar reasons as claim 25.

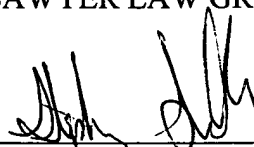
The Examiner additionally cited Hancock, U.S. Patent No. 6,202,023, in the rejection of dependent claims 3, 11, 19 and 28. Hancock fails to correct the deficiencies of Martin and Goodman, and claims 3, 11, 19 and 28 are believed patentable for at least the same reasons as their respective parent claims as explained above. The Examiner additionally cited Giangarra et al., U.S. Patent 6,101,472, in the rejection of dependent claims 8, 16, and 24. Giangarra fails to correct the deficiencies of Martin and Goodman, and claims 8, 16, and 24 are believed patentable for at least the same reasons as their respective parent claims as explained above.

Accordingly, it is respectfully submitted that the cited references do not teach or suggest the combination of features and limitations recited in the independent claims. In view of the foregoing, it is submitted that independent claims 1, 12, 24, 36, 44, and 52 are allowable over the cited references. Applicant further submits that the dependent claims are allowable for at least the same reasons as the allowable independent claims, and for additional reasons.

In view of the foregoing, Applicant submits that claims 1-30 and 51-72 are patentable over the cited references. Applicant, therefore, respectfully requests reconsideration and allowance of the claims as now presented.

Applicants' attorney believes this application in condition for allowance. Should any unresolved issues remain, Examiner is invited to call Applicants' attorney at the telephone number indicated below.

Respectfully submitted,
SAWYER LAW GROUP LLP

A handwritten signature in black ink, appearing to read 'Stephen G. Sullivan', is written over a horizontal line.

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